

Aquam5/8

5/8 port unmanaged IP65/67 EN50155 switches



» Overview

Aquam5/8 as IP65 and unmanaged Ethernet Switch, supports 5 or 8 Fast Ethernet interfaces of with M12 connector to ensure the tightness and the firmness of the connection and ensure reliable operation, especially suitable for application that are subject to high vibration and shock. Aquam5/8 supports panel mounting, supports IP65 protection class to meet the requirements of dustproof and waterproof performance, supports a wide range of operation temperature(-40°C~75°C), and meets EN50155, EN50121, EN55022 Class A&B and FCC CFR47 Part 15 standard requirements, making the product is suitable for the industrial field of various harsh environment, especially rail transportation and automation industry with strict requirements on reliability.

» Key Features

- Supports a maximum of 8 10/100Base-TX ports
- Supports M12 connectors
- Supports panel mounting
- Supports redundant power input
- Complies with the requirements of EN50155 and EN50121 industrial standards
- IP65/67 protection class

» Product Specifications

>Technical Specification

-Technical Parameter

Standard

IEEE 802.3i(10Base-T)

IEEE 802.3u(100Base-TX)

IEEE 802.3x(Flow control)

-Switch Properties

MAC Table 2K

Packet Buffer 1Mbit

Packet Forwarding Rate Aquam5: 0.7Mpps

Aquam8: 1.2Mpps

Switching Delay <10us

-Interface

Fast Ethernet Port 10/100Base-T(X) , M12 D-coded connector

-LED

LEDs on Front Panel Power LED: PWR1,PWR2

Interface LED: Link/ACT

-Power Requirements

Power Input 24VAC/DC(12-48VDC/18-30VAC)

110VDC(50.4-137.5VDC)

Power Terminal M12

Power Consumption <4.6W

Overload Protection Support

Reverse Connection Protection Support

-Physical Characteristics

Housing Metal

cooling Nature cooling,fanless

Protection Class IP65/67

Dimensions 74mm×220mm×50.9mm(W×H×D)

Weight <0.75Kg

Mounting panel mounting

-Environmental Limits

Operating Temperature -40 to +75°C

Storage Temperature -40 to +85°C

Ambient Relative Humidity 5 to 95% (non-condensing)

-Warranty

MTBF 4381030h

Warranty Period 5 years

-Approvals

24VAC/DC Model: CE, FCC, EN50155, EN50121, EN45545, E mark, UL61010

110VDC Model: CE, FCC, EN50155, EN50121, EN45545, EN60950

-Industrial Standard

EMI

FCC CFR47 Part 15, EN55022/CISPR22, Class A

EMS

IEC61000-4-2 (ESD) $\pm 6\text{kV}$ (contact), $\pm 8\text{kV}$ (air)

IEC61000-4-3 (RS) 20V/m (80MHz-2GHz)

IEC61000-4-4 (EFT) Power Port: $\pm 2\text{kV}$; Data Port: $\pm 2\text{kV}$

IEC61000-4-5 (Surge) Power Port: $\pm 1\text{kV/DM}$, $\pm 2\text{kV/CM}$

IEC61000-4-6 (CS) 10V (150kHz-80MHz)

IEC61000-4-8 (Power frequency magnetic field) 50Hz 100A/m

IEC61000-4-9 (Pulsed magnetic field) 300A/m

IEC61000-4-29 (Voltage Short interruptions) 10ms 100%

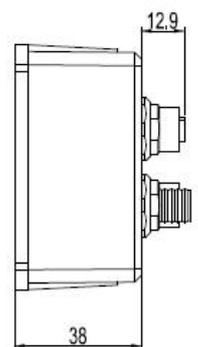
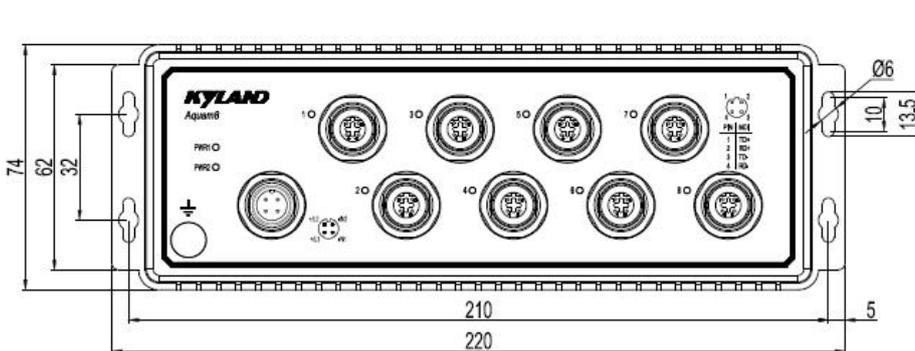
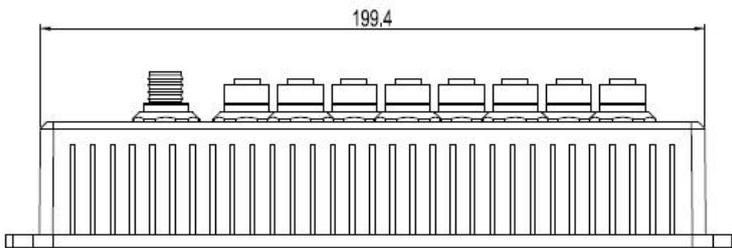
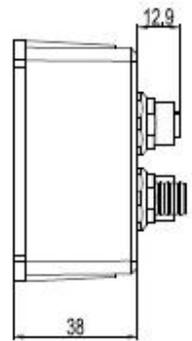
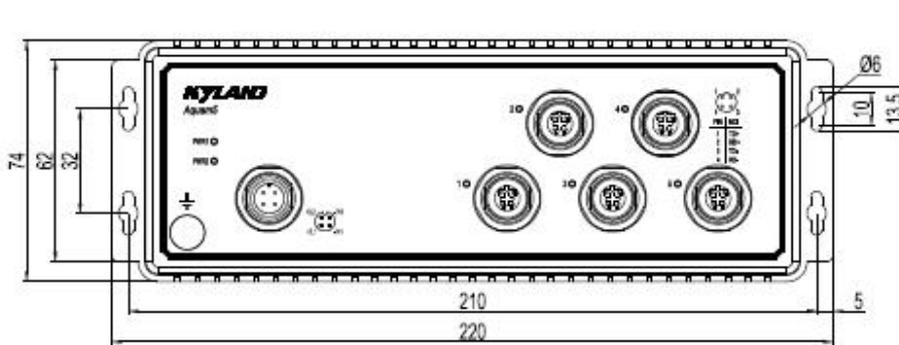
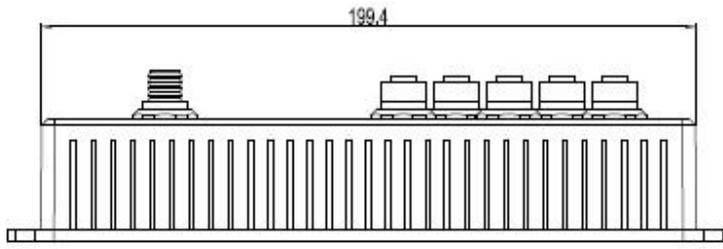
Safety EN60950-1

Machinery

IEC61373 (Vibration and Shock)

IEC60068-2-32 (Free Fall)

 **Mechanical Drawing**



» Ordering Information

Recommended Models

Product Model Aquam5-Ports-PS1-PS2

Code Definition Ordering Codes

Ports	5T = 5 X 10/100BASE-T(X) M12 port
PS1-PS2 (Power Supply)	LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power input
Product Model	Aquam5-H-Ports-PS1-PS2
H: High protection class	Product support IP67 protection class, while others without this mark support IP65 protection class
Ports	5T = 5 X 10/100BASE-T(X) M12 port
PS1-PS2 (Power Supply)	LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power input
Product Model	Aquam5-N-Ports-PS1-PS2
N: Neutral	The product appearance without kyland logo
Ports	5T = 5 X 10/100BASE-T(X) M12 port
PS1-PS2 (Power Supply)	LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power input
Product Model	Aquam5-NH-Ports-PS1-PS2
H: High protection class	Product support IP67 protection class, while others without this mark support IP65 protection class;
N: Neutral	Product appearance without kyland logo;
Ports	5T = 5 X 10/100BASE-T(X) M12 port
PS1-PS2 (Power Supply)	LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power input

Product Model Aquam8-Ports-PS1-PS2

Code Definition Ordering Codes

Ports	8T = 8 X 10/100BASE-T(X) M12 port
PS1-PS2 (Power Supply)	LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power input
Product Model	Aquam8-H-Ports-PS1-PS2
H: High protection class	Product support IP67 protection class, while others without this mark support IP65 protection class
Ports	8T = 8 X 10/100BASE-T(X) M12 port
PS1-PS2 (Power Supply)	LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power input
Product Model	Aquam8-N-Ports-PS1-PS2
N: Neutral	The product appearance without kyland logo
Ports	8T = 8 X 10/100BASE-T(X) M12 port
PS1-PS2 (Power Supply)	LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power input

Product Model Aquam8-NH-Ports-PS1-PS2
 H: High Product support IP67 protection class, while others without
 protection class this mark support IP65 protection class;
 N: Neutral Product appearance without kyland logo;
 Ports 8T = 8 X 10/100BASE-T(X) M12 port
 PS1-PS2 (Power LV-LV=24VAC/DC(12-48VDC/18-30 VAC), redundant power
 Supply) input

Product Model Aquam5-Ports-PS1-PS2
 Code Definition Ordering Codes
 Ports 5T = 5 X 10/100BASE-T(X) M12 port
 PS1-PS2 (Power H6-H6=72-110VDC(50.4-137.5VDC), redundant power input
 Supply)
 Product Model Aquam8-Ports-PS1-PS2
 Ports 8T = 8 X 10/100BASE-T(X) M12 port
 PS1-PS2 (Power H6-H6=72-110VDC(50.4-137.5VDC), redundant power input
 Supply)

Accessories

Accessory Model	Description	Note
M12-A-4P-F	Female cable connector with M12, A-Coding, 4 Pin	Power interface Connector
M12-D-4P-M	Male cable connector with M12, D-Coding, 4 Pin	10/100Base-TX interface Connector
DT-XL-PWR-M12-XXX-3m	3m connecting line with M12 connector for power ports (from M12 to the exposed end)	Power cable with M12 connector

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